The Chemical Age

Index to Volume XXXIII.

July-December, 1935.

A
Accidents in the Chemical Industry, 53,
77, 84, 170, 565, 572
"Achema VIII," 574
Acid-Resisting Tile Linings, 148
Acids, The Handling and Storing of, 516
Aden, Fuel Oil, 332
Adsorption and Catalysis, 545
Advertising Association, The: Sir Ernest
Benn to be President, 403
Atrica, South, Chemical Notes from, 28
322, 406, 426
Air Humidity Control, 286
Alcohol, Power, Development in Europe;
Dr. N. G. Chatterji, 117
Alkali Act and the Chemical Industry,
404
Alkali Works, Annual Report of the
Chief Inspector of, 37, 119
Alkalods: General Ideas and Methods,
545
Duning Laboratory, Ware, 453

Alkaloids: General Ideas and Methods, 545
Alumina Laboratory Ware, 453
America: Chemicals, Exports of, 518; Chemical Society, 164, 195; Monographs, 403
Amino Acids, New Indispensable; Madelyn Womack, 142
Ammonia, Economics of the Synthetic Manufacture of, 301, 325, 350, 378, 398, 423, 446
Analyst. The Work of the Public; Edward Hinks, 604
Andersonian Chemical Society, 487
Anglo-Iranian Oil Co. Ltd.: Conference at Subury, 129
Amnual Chemical Dinner: Sir John Cadman's Views on Oil from Coal, 571
Association of British Chemical Manufacturers, 333

AUTHORS

Armstrong, Dr. E. F., Chemical Industry under the New Parliamentary Regime, 585; Armstrong, Professor Henry E., Chemical Industry and Carl Duisberg, 81, 104; Some Reflections on the British Association Meeting, 251, 271, 310

Brett, C. W., Welding in Chemical Plant Repairs, 397; Brownlie, David, Modernising the Steam Boiler Plant, 465

Chatterji, Dr. N. G., Power Alcohol Development in Europe, 117; Clayton, Dr. William, Colloid Chemistry in 1935, 594

Durrans, Dr. Thos. H., The Year's Progress in Solvents and Plastic-isers, 606

Evans, Dr. R. C., X-Ray Methods in Industry, 559

Industry, 559
Gair, C. J. D., Industrial Spectrum
Analysis in Action, 517; Gair,
C. J. D. and C. S. Hitchen, Industrial Spectrum Analysis, 51, 75, 99;
Griffiths, Hugh, Chemical Engineering in Retrospect and Prospect, 591

Hall, A. J., Developments in the Real Silk Industry, 327: Progress in the Colouring and Finishing of Textile Materials, 597; Hilditch, Professor T. P., Fatty Oils and Soaps in 1935, 599; Hinks, Edward, The Work of the Public Analyst, 604

Jones, Arthur, Non-Flam Celluloid Plastics and Plasticisers, 130

Lea, Professor F. C., Steam Traps and Strainers, 274

Maxted, Dr. E. B., The Nitrogen Industry in 1935, 601

Parrish. P., Conditions in the Heavy Chemical Industry in 1935, 587; Pickard, J. A., Filtration of Lubri-cating Oil in Service, 59; Pratt, G. D., Textile Bleaching with Hydrogen Peroxide, 145

Radley, J. A., Fluorescent Analysis of Fuel Oils and Lubricants, 120

Schofield, M., The Development of Zirconium and its Compounds, 393; Spence, Hugh S., Radium Dis-coveries in North-West Canada, 143

Teeters, Wilber Otis, Condensation Reactions of Cyclic Ketones, 197; Tucker, Dr. S. H., Wanted—An Intelligent Youth, 487

Miteligent Youth, 487
Wallace, Eben, Imports and Unemployment, 584; Watson, John D., Cooling Water in Industrial Plant, 249; Whitby, Dr. G. S., Industrial Chemistry in Canada, 185; Wight, L. A., Badgetary Control as an Aid to Management, 328; Withey, S. Howard, Capital and Revenue Expenditure in the Chemical Trades, 34; Chemical Industry Finance, 422; Womack, Madelyn, New Indispensable Amino Aids, 142

Azoic Colours, A Symposium on, 372

В

Bakers' Exhibition, 236
Barytes in Trinidad, 539
Bauxite Cement in India, 236
Beaker Clip, A Useful, 64
Bedson Club, 441
Bedson Club, 441
Benn Brothers, Ltd., Annual Meeting
of, 128
Bentonite, Properties and Uses of, 419
Benzeue, A Method for the Determination of, 476
Bleaching, Dyeing and Finishing, 253
Boiler House Equipment, 468

BOOK REVIEWS-

Absorption Spectra, The Application of, to the Study of Vitamins and Hormones (Morton), 196; Alerte au Gaz! (Stackelberg), 261; Applied Chemistry (Tinkler and Masters), 126

Beckoning Horizon (Wedgwood Benn), 65; Bituminous Mixtures, The Testing of (Broome), 196; Butane-Propane Gases, The Handbook of, (Finley), 237

termey), 254
ment and Concrete, The Chemistry
of (Lea and Desch), 306; Chemical
Formulary (Bennett), 172; Chemical Thermodynamics, The Fundamentals of (Butler), 172; Colloid
Chemistry in Ceramics (Kohl), 126

Electric Furnaces (Brauer and Reitstotter), 126, 172

Food Laws and Regulations, A Summary of (Hinton), 197

Gas, The Manufacture of (Hollings), 196

Heats, The Discovery of Specific and Latent (McKie and Heathcote), 173; Herstellung und Eigeneshaf-ten der Kumstseide und Stapelfaser (Zart), 126; Hochpolymere Or-ganische Naturstoffe (Saechtling), 126

Book Reviews-continued

Aboratory Book of Elementary Organic Chemistry (Lowy and Baldwin), 196; Laundry Chemistry (Harvey), 196; Laundry Washing and Bleaching (L.C.I.), 191; Lime-stone and its Products (Searle), 261; Liquid Fuels (Moore), 237

Liquid Fuels (Moore), 237

Magnetochemistry, Physical Principles and Applications of (Bhatnager and Mathur), 306; Matieres
Colorantes Artificielles, Les (Martin),
237; Mining and Ore-Dressing
Technique (Madel and Ohnesorge),
172; Molybdenum Steels (Vogel
and Rowden), 237; Motor Fuel
Preparation and Application, The
Principles of (Nash and Howes), 237

Nitrocellulose Ester Lacquers: their Composition, Application and Uses (Zimmer), 126

Optical Rotatory Power (Lowry), 126; Organic Syntheses (Noller), 172 Petroleum and its Products, Standard Methods for Testing, 306

Shellac (Parry), 261; Silica Gel and Bleaching Earths (Kausch), 196; Smithsonian Physical Tables (Fowle), 237; Solvent Recovery Methods (Schwarz), 127

Technical and Scientific Encyclo-paedia (Tweney and Shirsov), 173; Tradesman's Entrance (John Benn), 54

Valency, An Introduction to the Modern Theory of (Speakman), 196

Books Received, 24, 46, 91, 137, 158, 180, 225, 244, 414, 436, 462, 506, 555 Botulism from Bottled Food, 198 British Association Meeting at Norwich 209, 229, 251, 271, 301, 301, 301, 311, 524, 511, 524

511, 524 British Celanese, Ltd., Annual Meeting, 430

History Cames, 16d., Almuar Meeting, 430
British Chemical Industry; Professor G. T. Morgan, 500
British China Clay Producers' Federation, 332
British Fuel Policy, The, 323
British Fuel Policy, The, 323
British Road Tar Association, 418
British Road Tar Association, 418
British Road Tar Association, 48
British Standards Institution, 39, 46, 80, 181, 211, 218, 420, 454, 566, 503
Brussels, Chemical Congress at, 190
Brussels International Fair, 305
Bulgarian Trade in Pharmaceutical Goods, 556
Bunsen Burner, An Adaptable, 64

C .

Calcium Carbide—New British Standard Specification, 593 Calorific Value, Determination of, 130,

Camphor and Camphor Oil from Mauri-

Camphor and Camphor of this, 233.
Canada: Ferro-Alloy Production, 461; Industrial Chemistry in; Dr. G. S. Whitby, 185; Platinum Production, 497; Salt Supplies, 499
Capital and Revenue Expenditure in the Chemical Trades; S. Howard Withey, 21

34 Carbohydrates, The Molecular Structure of (British Association Meeting), 209 Carbon Black Plant, 548 Casein, Synthetic Wool from, 556 Caustic Soda Evaporators, 425

Cement, Acid-Resisting, of Outstanding Merit, An, 147; Manufacture in Mysore, 252; Manufacture of Quick Hardening, 273 Central Agricultural Bibliography, 94 Ceramic Society, The, 608 Chance & Hunt, Ltd., Centenary of, 352,

Chance & Hunt, Ltd., Centenary of, 352, 369
Charcoal Fuel for Cars, 300
Chemical Club, The, 406
Chemical Engineering Group, 361, 516
Chemical Engineering in Retrospect and Prospect: Hugh Griffiths, 591
Chemical Engineering in the Navy, 7
Chemical Industry, Heavy, Conditions in the, in 1935; P. Parrish, 587
Chemical Industry under the New Parliamentary Regime; Dr. E. F.
Armstrong, 585
Chemical Reactions under Pressure, 546
Chemical Society, 382, 405, 524, 545, 562, 583
Chemical Stoneware, Hathernware 396

Chemical Society, 382, 405, 524, 545, 562, 583
Chemical Stoneware, Hathernware 396
Chemistry Treaching of, Professor Smithel's on the, 467
Chemists' Exhibition, The, 311
Chile: Iodime Exports, 197; Pharmaccutical and Essential Oils, 444
China Clay Industry, The, 332; Shipments, 40, 181, 293, 389, 503, 577
Chlorosis in Fruit Trees, 194
Citric Acid Agreement, International, 461
Coal, Analytical Disintegrator for, 524
Coal and Coke, Analysis of, 420
Coal Distillation Plant, New, 331
Coal Hydrogenation Petrol Plant, Official Opening at Billimpham, 345
Coal Industry, Future of the, 360; Plasticity and the, 439
Coal, Oil from, Sir John Cadman's Views on, 571
Coal Resources, Our National (Sir Harold Hartlay; Hiroduse Vancelett, 1977)

On, 571 Coal Resources, Our National (Sir Harold Hartley's Hinchley Memorial Lecture),

393 Coals, The Resistance to Grinding of, 563 Coal Tar, Sampling of, 80 Coconut Palm Products, 568 Coke Oven Managers' Association, The, 402

Coke Oven Managers' Association, The, 402
Coke Ovens for France, 236
Colloid Chemistry in 1935; Dr. William Clayton, 594
Colloids and Crystal Growth, 428
Colours for Industrial Use, 26
Colour Testing and Recording, 474
Colour Users' Association, The, 95
Commucrail Travellers' Schools, Pinner, 108, 352, 571
Company Registrations at Somerset House, 127

COMPANY NEWS-

Abertha and Bristol Channel Port-land, "ement Co., 24; Amalgamated Zinc (De Bavay's), 225; American Cyanamid, 293; American Smelting and Refining Co., 414; Anglo-Continental Guano Works, 341; Anglo-Tranian Oil Co., 506; Asso-ciated Portland Cement Manufac-turers, 246; Avery, W. and T., Ltd., 46, 530

46, 530

Babcock and Wilcox, 366; Bell Brothers (Manchester, 1927), 46; Benn Brothers, Ltd., 92; Bleachers Association, 575; Blythe & Co., William, 268; Boake Koberts & Co., William, 261; Boake & Co., William, 261; Bradford Dyers' Association, 555; British Berzol and Coal Distillation, 575; British Celanese, Ltd., 72

Company News-continued

pany News—continued
366, 413; British Coal Distillation,
92; British Cotton and Wool Dyers'
Association, 483; British Cyanides,
Ltd., 461; British Glues and
Chemicals, 23; British Match Corporation, 413; British Oxygen Co.,
Ltd., 66; British Plaster Board,
413; British Porlaud Cement
Manufacturers, Ltd., 246; British
Tar Products, 482; Broken Hill
Proprietary Co., 137; Broken Hill
Proprietary Co., 137; Broken Hill
South, 113, 223, 531; Bryant and
May, Ltd., 366; Buell Combustion,
46; Burmah Oil Co., 366; Burts
Boulton and Haywood, 341, 366;
Bussey Coal Distillation, 575

Slico Printers' Association, Ltd. 180;

Calico Printers' Association, Ltd., 180; canadian Celanese, 530; Canadian Industries, 205; Celanese Corpora-tion of America, 555; Cellulose Acetate Silk Co., 46, 66; Central Oil, Minig and Chemical Trust, 434; Cerebos, Ltd., 246; Chance & Hunt, Ltd., 352; Chemical Bank and Trust Co., New York, 92, 366; Coal and Allied Industries, Ltd., 526; Commercial Alcohol Co., 113; Cooper, McDougall and Robertson, 246; Courtaulds, Ltd., 72

Dartmoor China Clay, 506; Davey Paxman & Co., 113; Distillers Co., The, 23, 46, 84; Duckham & Co., Alexander, 225; Du Pont de Nemours, 137, 413

Eastern Chemical Co., 413; Eastman Kodak Co., 158, 225; Eastwoods Cement, Ltd., 72; Electrolytic Zinc Co. of Australia, 23, 366, 413; English China Clays, 23, 530; English Velvet and Cord Dyers' Association, 113; Explosives and Chemical Products, 366

Field, J. C. and J., 506; Fison Packard and Prentice, 366;

Gas Light and Coke Co., 113; Gould-ing, W. & H. M., 137, 555; Green, Herbert, & Co., 180, 193; Griffiths Hughes Proprietaries, 530

Harben's (Viscose Silk Manufacturers), 92; Howards & Sons, Ltd., 500

Hord, Ltd., 555; Illingworth Car-bonisation Co., 575; Imperial Chemical Industries, Ltd., 246; Imperial Smelting Corporation, 450, 461, 513; International Nickel Co. of Canada, 175, 434

Lafarge Aluminous Cement. 268; Laneegaye Safety Glass (1934), 92, 555; Laporte, Ltd., B., 506; Lawes Chemical Co., 180; Leeds Fireclay Co., 575; Lewis Berger & Sons, 413; Limmer and Trinidad Asphalte Co., 158; 1_evering China Clays, Ltd., 46, 66, 86; Low Tem-perature Carbonisation, 577

Midland Tar Distillers, 366; Milton Proprietary, 575; Minerals Separa-tion, 413; Major and Co., 92; Metallgosellschaft of Frankfurt, 506; Monsanto Chemical Co., 137

Nairn and Greenwich, Michael, 46; Nathan & Co., Joseph, 483; National Canning Co., 72; New G. and S. Processes Syndicate, 483; New Transvaal Chemical Co., 23; Nobel Chemical Finishes, Ltd., 332; North British Rayon Co., 413; North Broken Hill, Ltd., 295, 413; N.T. Artificial Wool Co., 268

Oakey & Sons, John, 180

Paterson Engineering Co., 180, 240; Pharmaceutical Products Co., 113; Phospherine Products, 575; Pinchin Johnson and Co., 205; Powell Duffryn Steam Coal Co., 23; Pullar & Sons, Ltd., J., 260

Raffinerie de Petrole Du Nord, 268; Reckitt and Sons, Ltd., 158, 461; Redfern's Rubber Works, 92; Ruths International Accumulators, 461

International Accumulators, 461
Sadler and Co., 366; Saffory and
Moore, 23; Scottish Agricultural
Industries, Ltd., 413; Shawinigan
Water and Power Co., 113, 413;
Sheepbridge Coal & Iron Co., 225;
"Shell" Transport and Trading
Co., 482; Solidol Chemical Co.,
180; Solignum Co., 92; Splintex
Safety Glass, 390; Standard Chemical Co., 46; Staveley Coal and Iron
Co., 225; 268; Steiner & Co., F.,
225; Sulphide Corporation, 506,
531, 577

Tate and Lyle, Ltd., 482, 530: Tecal-emit, Ltd., 390; Tehidy Minerals, Ltd., 180: Timothy Whites and Taylors, 555; Thorncliffe Coal Dis-tillation, Ltd., 268: Triplex Safety Glass Co., 205, 225; Turner and Newall, 531

Vaassij olleus

Holff Tiontell

Company News-continued

United Glass Bottle Manufacturers, 225; United Indigo and Chemical Co., 205, 246, 575; United Premier Oil and Cake Co., Ltd., 268; United Turkey Red, 268

Vick Chemical, Inc. (U.S.), 268; Virgina-Carolina Chemical Corpora-tion, 268

Wall Paper Manufacturers, 434 ;Wear-dale Lead Co., 482; Webb's Crystal Glass, 23; Wright, Layman and Umney, 180

Yorkshire Dyeing and Proofing Co., 137, 575

Zine Corporation, Ltd., 72, 85, 555

CONTINENTAL CHEMICAL NOTES

Albania, 199: Belgium, 19, 41, 65, 175, 219, 304, 451, 573; Bulgaria, 384; Czecho-Słovakia, 19, 41, 109, 241, 262, 289, 362, 407, 451, 499, 526; Denmark, 86, 175, 241, 280, 362; Esthonia, 19, 86, 190, 281, 526; Enland, 41, 479; France, 19, 41, 65, 109, 131, 175, 199, 219, 262, 335, 362, 407, 430, 451, 479, 499, 549, 573; Germany, 41, 65, 86, 109, 152, 175, 219, 241, 262, 289, 304, 362, 407, 430, 526, 549, 573; Greenland, 526; Holland, 65, 199, 262, 289, 384, 407, 479, 549; Hungary, 109, 199, 241, 362, 2407, 526, 573, 11aly, 19, 109, 152, 175, 199, 304, 407, 430, 499, 549; Jugoslavia, 199, 479, 499, 526; Lithuania, 19, 362; Norway, 199, 289, 384, 479, 499, 526; Lithuania, 19, 362; Norway, 199, 289, 384, 479, 499, 526; Lithuania, 19, 362; Roumania, 86, 335, 384; Russia; 65, 86, 131, 152, 175, 199, 219, 241, 429, 299, 304, 335, 380, 384, 430, 451, 479, 499, 526, 549; Spain, 109, 362, 384, 407; Sweden, 131, 384, 479, 526; Switzerland, 19, 86, 109, 199, Turkey, 86, 175, 562, 549

CORRESPONDENCE-

Aluminium in Food (W.H.), 451; Armstrong, Professor, replies to Sir Ernest Benn, 131 Colloidal Clay in Soap (Dartmoor China Clay Co., Ltd.), 85 Grass Drying in October (Rogerson), 425 Intelligence — Wanting Everywhere (H. E. A.), 523 Patents in Great Britain (W. P. Dreaper), 451; Poison Board Report of the (H. T. F. Rhodes), 12, 39

Transparent Cellulose Wrapping (British Cellophane, Ltd.), 240 Welding, Modern Methods of (Works Manager), 375

Corrosion, Obtaining Immunity from, 147; Prevention of, in Building Construction, 58; Resistance, The Problem of, 287
Cosmetic Manufacture, 349
Crude Oil from Torbanite, 322
Cyanide, Manufacture of, 322
Cyanide, Manufacture of, 322
Cyanides for Electro-Plating; New British Standard, 218
Cycle Ketones, Condensation Reactions of; Wilber Otis Tecters, 197
Czechoslovakia: Trade Openings, 168;
Varnishes, 540

Daylight Variability, 453
Descaling Fluids, 192
Disinfectants, Industrial, 540
Disinfetrants, Industrial, 540
Disinfetgrator, A "One-Operation," 63
Dry Cleaning with Triklone, 418
Dry Lee Manufacture in Cuba, 108
Duisberg, Carl, Chemical Industry and;
Professor Henry E. Armstrong, 81, 104
Dycing Industry, Staybrite Steel in the,
477

477
Dyestuffs, Developments in, 333; Monastral Fast Blue B.S., 514; New, 102, 213, 260, 396, 461
Dyestuffs, Vat, containing only Carbon, Hydrogen and Oxygen, 572

EDITORIAL-

Accidents on Pay-Days, 139; Accidents to Voung Persons, 160; Accidents, Works, and their Prevention, 557; Air Conditioning and Poison Gas, 228; Air Hygiene, 534; Alkali Inspector's Report, The, 26; Aluminium in Food, 392, 510; Analgamation of Factories, 116; Bet Sugar Subsidy, The, 116, 184; Benn's, Sir Ernest, Tenth Book, 510; British Association Meeting, The, 207; British Colour Council, 93; Brussels Exhibition, The, 298

Editorial-continued

Cancer and Common Salt, 183; Canned Foods, Safety, 183; Carbon Bisulphide Dangers, 558; Chance and Hunt Centenary, 367; Chemical Dinner, The Annual, 438; Chemical Elixirs of Life, 438; Chemical Industry in 1935, The, 581; Chemical Societies and Co-operation, 207; Chemist and the Ship-builder, The, 139; Chemistry, A House of, 25; Chemistry and the Distressed Areas, 115; Chemistry as an Agent of Peace, 184; Chemists, A Problem for, 159; Chemists Gettling Together, 438; Coal By-Products, Research into, 416; Coal, New Industries from, 558; Coking and Chemical Research, 391; Colour Users' Problems, 93

De Commonsensibus, 49; Directors who Lack Knowledge, 140; Disinfectants, Manufacture of, 553

Evaporation, Fundamental Research on, 485; Examined

fectants, Manufacture of, 533
Evaporation, Fundamental Research
on, 485; Examiners Examined,
534; Experiment, A Great, 486;
Explosives, Inspection of, 73
Fine Chemical Manufacturers and Key
Industry Duties, 367; Foodstuffs,
Purity of, 160; Fuel Luncheon
Club, The, 534; Fuel Problems,
British, 343
Care, New Poisconers, 392;

Gas, Coal, Non-Poisonous, 392; Gaseous Streams, Subdividing, 270; General Election, The, 344, 416, 464; German Situation, The, 227

404; German Sunation, 10c, 227 Harrison Memorial Prize, 558; Health of the Worker, The, 74; Hinchley, John William, 297; Hull as, a Chemical Centre, 297; Hydrogen-ation Research, 50; Hydrogen, Sources of, 50

Sources of, 50
Import Duties and Chemical Production, 486; Industrial Spectrum
Analysis, 49; Industry and the
Distressed Areas, 486; Inorganic
Compounds, New, 320; Institute
in the Provinces, The, 247; Institute of Chemistry Examinations,
2; Inventor, Methods of the, 344;
Inventor, Smaller, Financing the,
140; Irish Developments, 227;
Italian Chemical Industry, 247
Jubileo Memorial Lectures, The, 463

traian Chemical Industry, 244 Jubilec Memorial Lectures, The, 463 Liberty for the Trader, 298; Loans for Small Business, 298, 320 Low Temperatures, 25; Minerals, Supplies of, 184; Motor Spirit, Chemical Production of, 248

Nationalism, Economical, 248; Ni-trate Situation, International, 416 Oil, Heavy, Tax, The, 139; Oil Wells in England, 558; Organisation of Industry, The, 94; Overseas Chemi-cal Trade, 464 Patents, Industrial, 415; Petroleum Spirit Dangers, 73; Problems of a Kindred Industry, 437

Road Tar, 93

Road Tar, 93
Safety in the Chemical Industry, 73,
345; Seience and the Railways, 510;
Seience Library, The, 269; Society
of Chemical Industry (Glasgow
Meeting), 1; Sodium Chloratow,
Meeting), 1; Sodium Chloratow
Danger, 319; Spanish, A New
Directory in, 208; Statistical
Methods and Standardisation, 464;
Suthhuric Acid Tests, 26; Syn-Sulphuric Acid Tests, 26; thesis, Another, 298

tness, Another, 298
Technical Information Bureau, A.,
438; Things that Count, 269;
Trade Press, Testimony to the, 392;
Traders and Transport, 486; Training the Coming Generation, 509;
Transport, Chemical, by Road, 368
Welding Chemical, Vascale 369 Welding Chemical Vessels, 368; Workers' Grievances, 534

Zero, Absolute, 74; Zinc Industry and Protection, 510

Egypt: Chemical Imports, 503
Election, General, 429, 472
Electrodeposition: Exhibition, 332; in
Industry, 84
Emulsion Making, An Advance in, 452
Essential Oil Industry, 590
Ethanolamines in Industry, The, 374
Ethylene Glycol, New Use for, 30
Evaporation of Water from Surfaces,
The, 493, 522
Exhibition in New York—Fifteenth
Exposition of Chemical Industry, 193
Explosives, Risks in the Manufacture
and Handling of, 79
Export Problem Solved, An; Adoption
of a Mark of Selection, 238

Fabrics, Woven and Knitted, Properties of, 405 Factories and Workshops, Annual Re-port of Chief Inspector of, 53, 78 Factory Developments in 1934, 189

FAR EASTERN CHEMICAL NOTES

China, 61, 152, 175, 241, 262, 407, 549; Dutch Indies, 61; Japan, 61, 152, 175, 241, 262, 362, 407, 500, 549; Manchuria, 362, 407, 479, 549; Sakalin, 549; Sumatra, 47

Fatty Acids, Synthetic, for the Soap Industry, 56 Federation of British Industries' Survey of Britain's Commercial Policy, 128 Fertilisers and their Use in Practice, Modern, 473; for the Sugar-Beet Crop, 331; in the Tropics, 218 Fibre, A New Staple, 219 Finance, Chemical addustry; S. Howard Withey, 422 Fire Extinguisher, Methyl Bromide as, 330

Fire Protection for Chemical Works, 278 Fire Resistance Research, 526 Flame Movement in Gaseous Explosions,

261 Flame-proof Electric Motors, 62 Fluid Flow, The Measurement of, 285 Fluorescent Analysis of Fuel Oils and Lubricants; J. A. Radley, 120 Food Preservation, Chemical Aspects of, 161

161

161 Food Store, The Chemist in the, 359 Food Transport by Rail and Sea, 9 Forest Products Research, 163, France: Alcohol Production, 605: Boric Acid Production, 424 Fuel Luncheon Club, Proposed, 448 Fume Emission Troubles at Alkali Works, 37; in Scotland, 119 Furnaces for the Vitreous Enamelling Industry, 537 Furs, The Chemical Examination of, in Relation to Dermatitis, 335

Gas, Coal, Methanising Carbon Monoxide and Dioxide in, 394 Gases and Metals, 359 Gas Flow, Measured Control of, 64 Gas Indicator, The Fagelston Continuous,

Gas in Steel Containers, 228
Gas in Steel Containers, 228
Germany: Carbon Black Imports, 562;
Essential Oil Exports, 304; Synthetic
Resin Production, 150; Ultramarine
Trade, 525
Glasgow: Corporation Chemical Works,
15; Gift to Technical College, 373;
University Alchemists' Club, 609
Glass Industry Research, 40
Glass-Lined Equipment, British-Made,
444

444 Glass Making Practice, Modern, 544 Glass Protectors, Gauge, 454 Glass Silk for Heat Insulation, 15 Glassware, Laboratory, Interchangeable,

452 Glazes, Cold, with a Cement Basis, 477 Government Laboratory, Work of the,

299 Grass Drying, Developments in, 376

Halibut Liver Oil, 449 Health Exhibition, Exhibits at the, 40 Health in Chemical-Using Industries, 78 Honey, Absorption Spectra of, 404 Hull Chemical and Engineering Society,

442
Hungary: Lactic Acid, 309
Hydrocarbon Oils, The New Duty on
Heavy, 83
Hydrocarbons, Carcinogenic, 441
Hydrogen Production by the Badische
Process, 470, 491, 520, 542, 567

1

Imperial Chemical Industries, Ltd., Capital Reduction Scheme, 30, 106; 426, 448, 605; Coal Hydrogenation Petrol Plant at Billingham, 345, 395; Dry Cleaning with Triklone, 418; Exhibits at the Health Exhibition, 40; New Blue Pigment, 488; Workman's Compensation Case, 383 Import Duties (Exemptions) (No. 11) Order, 218 Imports and Unemployment; Eben Wallace, 584

Wallace, 584
India: Ammonium Sulphate in Mysore, 224; Chemical Imports, 187; Lac Research Iustitute, 125; Chemical Notes, 252, 479; Salt Industry Crisis, 224

224
Institute of Chemistry 427, 428, 473, 498, 583; Bedson Lecture, 441; Charter Jubilee Banquet, 27; Examination Results, 371; Liverpool, 360; Scottish, 405
Institute of Fuel, The, 323, 334, 360, 547,

Institute of Fuel, Ine, 323, 334, 300, 347, 563
Institute of Metals, 359, 477
Institute of the Plastics Industry, Developments in 1935, 596
Institution of Chemical Engineers, 430, 493, 522; Macnab Medal, 41; Modern Methods of Welding, 355; Hinchley Memorial Lecture, 359, 393; Associate Membership Examination, 382

Institution of Civil Eng. 427 Institution of the Rubbs Industry, 547 Instruments for Insutstrial Use, New, 279 Interaction between Gases and Solids,

Interaction between Gases and Solids, 524
International Society of Leather Trades' Chemists, 234, 308, 377, 598
Iraq Pipe Line, Romance of the, 165
Irish Industrial Alcohol Works, 349
Ironac Metal Acid-Resisting Plant, 283
Iron and Steel Institute: Andrew Carnegic Research Fund, 543
Iron and Steel Manufacture, 17
Isotopes, The Story of (British Association Meeting), 212
Italy: Chemical Industry, 254 Printing Inks, Output of, 61; Sulphuric Acid Production, 160

J

Japan: Ammonium Sulphate Produc-tion, 441; Aromatic Chemicals, Im-ports of, 300; Manufacture of Dyes, 109

Java: Lever Brothers Soap Plant, 216 Jun Cass Technical Institute, The Sir, 190

K

Key Industry Duty: Exemptions, 239, 556

L

Laboratory Balance, A New, 164 Lac Research in England, 561 Lac, The Physical Properties of, 188 Lactic Acid in Blood, 449 Laundry Washing and Bleaching, 191 Lead in Building Construction, 58

LEGAL

County Chemical Co., Ltd. v. R. P.
Abbott, 289
Lever Brothers, Ltd. v. Proeter and
Gamble and the Colgate-PalmolivePeet Corporations, 260
Phonotas Co., Ltd. v. Phonosan Co.,
Ltd., 198

Lever Bros., Ltd., Five-day Week Introduced, 575 Introduced, 575 Lighting Equipment, Flameproof, 284 Lighting in the Works, Artificial, 286 L.M.S. Research Laboratory, 535 Low Temperature Carbonisation, 40 Lubricating Oil Films, 546

M

Machinery, Speciality, 277
Management, Budgetary Control as an
Aid to; L. A. Wight, 328
Manchester Literary and Philosophical
Society, 428
Manchester University Courses, 208
Manufacturers' Literature, Points from,
455

455
Marble, Preservation of, 52
Meat and Fish Canning, 322
Meat Extracts, Composition of, 404
Metal Corrosion, Cold Water in, 454
Metal, Oxidation and Scaling of, 352
Metrys for the Measurement of Gas, 281
Methyl Bromide as Fire Extinguisher,
330

Metropolitan Water Board Regulations,

Metropolitan Water Board Regulations,
The New, 163
Microchemical Analysis, 449
Micro-Organisms and Colours, 609
Micro-Organisms and Foodstuffs, 562
Mik Pasteurisation, Problems of, 427
Mineralogical Society, 500
Ministry of Health, The Nations Debt
to the, 427
Mixing, Drying and Grinding, 421
Molasses, Industrial Use of, 125
Monastral Fast Blue BS, 514
Monochromatic Light, Better, 64
Montecatini Concern—Illustrations, 254
Morocco': Profits of Office Cherifien des
Phosphates, 141
Motor Spirit from Coal, 214

N

National Federation of Paint Manufacturers, 603 National Lubricating Oil and Grease Federation, 383 Federation, 383 National Physical Laboratory, 36, 228,

352 National Smoke Abatement Society, 192 Netherland India; Caustic Soda Imports, 256 Newcastle Chemical Industry Club, 608

NEWS FROM THE ALLIED

INDUSTRIES Artificial Silk, 19, 66, 109
Beet Sugar, 86
Calico Printing, 109; Cement, 86;
China Clay, 66, 86; Compressed
Gases, 66
Dyeing and Finishing, 66, 86
Iron and Steel, 109
Non-Ferrous Metals, 66, 109
Shale Oil, 109; Shellac, 19; Sugar, 19
Tanning, 86

Nitrate Agreement Renewed, 240
Nitrogen in Foods and Feeding Stuffs,
Determination of, 564
Nobel House, Housewarming at, 332
Non-Ferrous Metal Tubes for Chemical
Plant, 287
Non-Flam Celluloid Plastics and Plasticisers: Arthur Jones, 130
Norwich Chamber of Commerce, 240

0

OBITUARY-Aikman, J. C., 497; Arkwright, W. L. T., 450

Bamforth, Joe, 41; Barlow, S., 525; Bedding, Frank, 19; Bowes, H., 472; Briggs, Professor Henry, 199; Brown, Edgar Roberts, 19; Brown, Robert Stirling, 497; Bush, Alfred Walter, 148, 173

Campbell, Andrew, 219; Coles, Walter James, 108

Doheny, Edward L., 241; Dreyfus, Dr. Charles, 548, 574

Escombe, Fergusson A., 408

Ford, Captain Henry G., 472; Frank-enburg, S., 472; French, Albert, 408

Glazebrook, Sir Richard, 574; Goulder, Thomas, 384; Grasselli, E. R., 429

Haig, Colonel Robert, 219; Hamilton, G. S., 450; Haward, Reginald S., 450; Hooker, Dr. S. C., 429; Hose, Robert John, 219; Hyslop, Sir Robert Murray, 267

Johnson, Joseph A., 408

Kay, Tom Rostron, 408; Kingzett, C. T., 107; Kitson, F. J., 497

Lee, G. W., 384; Lever, Mrs. James Darcy, 525; Little, Dr. Arthur D., 149; Lunn, W. E. S., 384; Lyle, William Park, 199

Wilman Fail, 199
Mapes, C. H., 429; Marbut, Dr. C. F.,
241; Matthews, Arthur M., 19;
MacKay, William, 497; M'Lennan,
Sir John Cunningham, 361; Meyer,
Sir Frank, 384; Mitchell, C. H.,
450; Murray, K. S., 173

O'Flynn, W. A., 525 Palmer, Sir Alfred, 148 Ross, A. J. J., 548; Rowett, Dr. F. E., 450

Shaw, Dr. E. W., 525; Stern, M., 384 Trickett, John William, 267; Turcan, John W., 241

Oil and Colour Chemists' Association, 321, 381, 474, 475, 477, 489 Oil Burning Equipment, 173 Oil Depots, Underground, 406 Oil, Lubricating, in Service, Filtration of; J. A. Pickard, 59 Oil Problem, Chemical Industry and the,

oil Refining Progress in Great Britain,

193
Oils and Soaps, Fatty, in 1935; Professor T. P. Hilditch, 599
Ointment for Preventing Industrial
Skin Diseases, 86
Oleo Resin Production in Kenya, 215
Oxidation and Reduction, 428

P

Packings, Anti-friction Metallic, 286
Paint Spraying Equipment, 262, 289
Paint Testing Apparatus, 288
Palestine, Matches in, 556
Paper, A New Whatman Filter, 454
Paper Making, Chemical Engineering
Problems in, 361
Parliament, Chemical Matters in, 85
Patents, Practical Hints on, 236

PERSONAL-

Alexander, Brig.-General Sir William, 472; Allen, H. B., 497; Amery, L. C. M., 497; Anchutz, Professor Richard, 41; Armistrong, Dr. E. F., 13, 585; Atkins, E. A., 41; Aussen, M. B. H., 61

M. B. H., 61

Baddeley, George, 384; Bainbridge, Frank, 267; Baly, Professor E. C. C. 511; Bannister, Professor G. C., 548; Barret, Dr. R. M., 85; Barry, T. Hedley, 475; Baskett, Professor G. G., 473; Bedding, F., 108; Bell, G. J., 429; Benn, Elizabeth, 105; Bennett, H. Garmer, 316; Blackman, G. E., 429; Boulter, R., 219; Bovill, E. W., 44; Braby, Cyrus, 148; Braby, Ivon, 148; Brady, Lyon, 148; Brady, Lyon, 148; Brady, Lyon, 48; Brady, J., 61; Bragg, Sir William, 472; Brass, J., 450; Brindley, Dr. G. W., 450; Brindley, Dr. W. H., 384; Brown, W. B., 361; Brenmer, J. G. M., 429; Briggs, G. H., 429; Browne, Sir J. Crichton, 548; Burch, C. R., 61; Burt, E. C., 44; Butler, Dr. E. J., 408; Buxton, H. D., 408

Personal-continued

Edwards, C., 548; Elliott, H. E., 472; Evers, Dr. H. H., 450; Fabry, Professor C., 525; Farquharson, Dr. John, 219; Feng-Yun O, Dr., 384; Finlayson, G., 316; Frolich, P. K., 525

525
 6air, C. J. D., 517; Gardner, C. Bruce,
 548; Gardner, W. J., 525; Gavin,
 W., 548; Gordon, Kenneth, 450;
 Goulding, Dr. Ernest, 497; Graham,
 J. B., 85; Graymore, Dr. J., 361;
 Gregory, Sir Richard, 199, Grier,
 James, 361

James, 361

Haddield, Sir Robert, 41; Haigh, B. Wilson, 241; Haler, P. J., 450; Hamilton, Richard A., 61; Hancock, John, 199; Harden, Professor A., 472; Hardie, T., 429; Harker, Dr. A., 472; Hardie, T., 429; Harker, 198; 384, 393; Haslett, James R., 199; Hayday, A., 472; Henriksen, R. H., 450; Herd, Thomas, 574; Hewlett, T. Harry, 384, 472; Hidditch, Professor T. P., 599; Hill, G. H., 361; Hinks, Edward, 604; Holland, Sir Thomas, 361; Hopkins, Sir Frederick Gowland, 384; Howard, Lieut.-Colonel Hugh Lloyd, 497; Hudson, H. R., 450; Hughes, J. C., 384; Hugill, J. A., 85

Isherwood, Dr. P. C. C., 497

Jay, A. H., 61; Jeans, Sir James, 384; Jenkins, G. S., 408; Joliot, Professor, 472; Jones, H. Hum-phreys, 429; Jones, W. H., 199

Keens, Alderman Sir Thomas, 108; Kerr, D., 450; Kershaw, C., 61 Hall, A. J., 597

Kerr, D., 450; Kershaw, C., 61
Hall, A. J., 597
Lamb, M. C., 574; Lapworth,
Professor, 384; Lee, Sir Kenneth,
408; Leverhulme, Lord, 408;
Leverhulme, Lord, 408;
Leverhulme, Lord, 408;
Leverhulme, Lord, 408;
Leverhulme, Lingeman, E. R.,
361; Lonsdale, Mrs. K., 61;
Lubbock, Mauriee F. P., 85;
Lyttleton, W. R., 61; MacDonald,
Ramsay, 384; McDuell, Miss D.,
61; Marston, A. E., 497; Maxted,
Dr. E. B., 601; Mees, Dr. C. E. K.,
497; Melchett, Lord, 408; McGowan
Sir Harry, 61, 384; MacGregor,
F. S., 361; Mackay, D. R., 41;
McKillop, Peter A., 108; MacNab,
W., 41; Main, S. A., 41;
Meister, S. J., 548; Melchett, Lord,
384; Mellinaby, Dr. E., 548;
Mendelssohn, Dr. Kurt, 241;
Metcall, Colin, 136; Miller, W. P.,
136; Mills, Dr. W. H., 408;
Michell, J. H., 61; McMurdo, D.,
D., 450; Moore, D. R., 384;
Morgan, Professor G. T., 61;
Morgan, Dr. Ronald Sidney, 329;
Morrison, W. Murray, 548
Napier, Sir J. W. L., 361 Newson,
W. W. 525; Nical Robert M. L8;

Napier, Sir J. W. L., 361 Newson, R. W., 525; Nicol, Robert M., 148; Norrish, R. G. W., 61

Palache, A., 316; Palin, F. G., 384; Parrish, P., 587; Parry, Dr. E. J., 525; Partridge, Dr. Everett P., 148; Pasmore, A. P., 41; Paul, J. A. D., 108; Pinder, J. L., 429; Potter, H. H., 61; Priestman, B. T., 148

Ralston, Oliver C., 173; Reading, Lord, 384; Reavell, William, 408; Redmayne, Sir Richard, 61; Rice, J. H., 136; Rickett, F. W., 497; Riverdale, Rt. Hon. Lord, 408; Robertson, Professor A., 408; Robertson, Professor A., 408; Rogers, Colonel H. H., 408; Rogers, Colonel H. H., 408; Roser, J. F., 408; Ross, William H., 85; Rutherford of Nelson, Lord, 19, 384

Sachs, Consul Hugo, 525; Savage, W. J., 316; Shackleton, H. B., 408; Shaw, Dr. F. J. F., 41; Sheppard, Dr. G., 408; Shepperd, Captain Victor, 61; Sidgwick, Professor

Personal-continued

Sonal—continued

N. V., 408, 583; Simpson, Dr.
J. C. E., 41; Singer, Dr. Felix, 136;
Smith, Bernard, 61, 429; Smith, J.,
429; Smithells, Professor Arthur,
450; Snoxell, S. B. J., 85; Spemann,
Professor Hans, 429; Stamp, Sir
Josiah, 219; Stephenson, W. M.,
548; Stockton, Sir Edwin, 108;
Stroud, Emeritus Professor William,
19; Sugden, Professor, 408; Swain,
John D., 361; Swan, Sir Alexander
B., 3

Tanner, Hugh, 408; Thompson, Miss Alta Frances, 85; Thompson, Edwin, 5; Thorpe, Professor J. F., 27, 497, 583; Tristram, W. J., 429; Turner, H. A., 108

Ubbelohde, A. R., 136

Cibbelohde, A. K., 136
Walker, Sir James, 472; Wall, R. F.,
41; Waterhouse, Alfred G., 574;
Watt, A., 52; Watts, Professor
W. W., 299; Weidlein, Dr. Edward
R., 408; Willox, Dr. F. A., 316;
Wilson, Professor C. T. R., 472;
Wilson, Robert F., 41; Winterbottom, A. B., 108; Wolfe,
Frederick J., 148; Wood, W.
Ciliford, 361; Wooley, William H.,
361; Worth, T. W., 472

Perth Dyeworks Valuation, 260 Petroleum, Air Survey for, 218 Petroleum Chemistry, Recent Progress in, 164

m, 164 Petroleum (Production) Act, 408 Petrol Joy Ride, A, 395 Petrols and Liquid Fuels, Sources of,

Pharmaceutical Society, The, 332, 406,

Pharmaceutical Society, The, 332, 406, 467, 607, Abew Recording, 146 Photometer, A New Recording, 146 Photometric Apparatus, New, 287 Pigment, A New Blue, 488 Pigments, Fat Soluble, of Nature, 405 Pigment Particles, A Study of, 381 Pipes and Cables in Buildings: New Identification Specification, 211 Pipe-Line Accessory, A Useful, 288 Plant: Mixing, Drying and Grinding, 421

Plant Chemistry, Study of, 252
Plant Constructional Materials on the
Continent, 141
Plasticity and the Coal Industry, 439
Plastics in Architecture, 382
Plastics: I.C.I. Contract with an
American Firm, 304
Plastics Industry, Growth of the, 442
Plastics, Research on, 417
Poissons Act, 12, 39, 85, 334
Poland, 10; Dye Industry, 152; Trade
Associations, 66

\mathbf{R}

Radioactivity, Artificial, 498
Radium, Artificial, from Salt, 198;
Discoveries in North-West Canada;
Hugh S. Spence, 143; German Demand, 490
Ramsay Chemical Dinner, 333, 541
Refractory Laboratory Ware, 62
Research Chemist Killed on Seashore, 329
Resins, The Future of Natural, 475
Rhenium, An Organic Reagent for, 441
River Pollution, Problems of, 573
Roadmaking, The Science and Practice of, 57
Royal Commercial Travellers School, 108, 352, 571
Royal Society, The, 261; Anniversary Meeting, 539
Rubber: Anti-Corrosive Medium, 496; Inflammability and Fireproofing, 417; Synthetic, 545; Transparent, 150; Incorporation with Tar Products, 149
Russia: Carbon Black Production, 214; Coumarin, Synthetic, in Russia, 260; Soap Industry, 151

Safety of workers, 572; Royal Commission, 574
Sea-Water Damage, Testing for, 335
Science and the Salvation of Civilisation (Professor F. Soddy), 167
Scatland (West of Scotland) Agricultural and Dairy Research, 18
Scotland, West of, Industries, 15
Scottish Shale Oil Industry, The, 31
Scrubbing and Distilling Towers, 284
Seeds, Imperfectly Dressed; Xew Identification Method, 232
Shellac Research Bureau, The London, 188

188
Shipping, Engineering and Machinery Exhibition, 231, 259
Silk, Real, Industry, Developments in the; A. J. Hall, 327
"Skeptical Chymist," To-day's, 321
Slates, Artificial Colouring of, 561
Smoke Abatement, 192, 333
Soap Industry, Synthetic Fatty Acids for the, 56
Soap Patents Action, 260

Society of Chemical Industry, 584;
Annual Meeting, Glasgow, 3; 1936
Meeting at Liverpool, 410; Medallist,
29; Bristol, 449, 572; Building
Materials Group, 498; Edinburgh,
333; Food Group, 494, 562; Glasgow, 333, 428; Leeds, 545; Liverpool, 404, 545; London, 333, 540;
Manchester, 334, 562; Newastle,
498; Plastics Group, 382; Road and
Building Materials Group, 359;
South Wales, 428, 439, 572;
Yorkshire, 449, 524, 564
Society of Dyers and Colourists, 372, 405,
428, 477, 546, 566, 572, 608
Society of Glass Technologists, 40, 406,
544, 609

Society of Public Analysts, 335, 382, 449, 547, 598

Sodium Chlorate, First British Manufac-ture of, 354

ture of, 354
Soil, Clay, Properties of, 498
Solid/Liquid Interface, Some Aspects of
the; Dr. W. Clayton, 489
Solvent Factory for Britain, New, 152
Solvents and Plasticisers, The Year's
Progress in; Dr. Thos. H. Durrans,
606

606
South Africa Chemical Notes, 28, 322;
Dyes, 426; Ochre Mines, 406
Spain, Economic Conditions in, 169
Spectrographic Laboratory, Equipping
the, 101
Spectrographs, Quartz, for Industry and
Research, 76
Spectrum Analysis in Action, Industrial,
517

517
Spectrum Analysis, Industrial; C. S.
Hitchen and C. J. D. Gair, 51, 75, 99
Stains in Textile Materials, 566
Starch, Cellulose, and Related Carbohydrates, 428
Steam Boiler Plant, Modernising the;
David Brownlie, 465
Steam Raising and Refuse Disposal, 288

Steam Traps and Strainers; Professor F. C. Lea, 274 Steam Traps for Chemical Works, 62 Stereochemistry, Recent Advances in,

382 Storage and Transport of Chemcals, 121 Sugar-Beet Crop, Fertilisers for the, 331 Sumatra, Chemical Fertilisers in, 36

Tar, British, for British Roads, 418; Viscosity, 449
Temperature Control, A New Method of: Use of Vacuum Switchgear, 569; Automatic, 275
Tennis Tournament. The Chemical Age Lawn, 58, 151, 216, 239, 256
Tetraphenylarsonium: An Organic Reagent for Rhenium, 441
Textile Bleaching with Hydrogen Peroxide; 6, D. Pratt, 145
Textile Institute, 596
Textile Materials, Progress in the Colouring and Finishing of; A. J. Hall, 597
"Time Study," 547
Tipplate, The Wonders of: New Trade
Film, 541
Tobacco Manufacture, Science and, 498
Trade, British Overseas Chemical, June, 60; July, 174; August, 258; September, 358; October, 478; November, 570
Transport, Food, by Rail and Sea, 9
Transport, Food, by Rail and Sea, 9
Transport of Chemicals, Storage and, 121
Travancore Paper Factory, 252
Tube, Gilled, A New Type of, 453
Tung Oil, Polymerised, 98
Tunisian Phosphate Exports, 407
Turkey, Chemical Industry of, 120

Vacuum Pan Accident, 84 Varnishes, Electrical Insulating, 506 Viscometer, An Improved, 63

Viscosity Data for Porcelain Slip, 64 Vitreous Enamelling Industry, Furnaces for the, 537 Voice of the Industry, The: A Retro-spect of 1935 and a Glimpse of the Future, 610

Wage Agreement in the Superphosphate Factories in Sweden, 574 med, 472 Wanted—An Intelligent Youth; Dr. S. H. Tucker, 487 Waste Products, Utilisation of, 354 Water Cooling in Industrial Plant; John D. Watson, 249 Water, Distilled, Production of, 108 Water, Distilled, Production of, 404 Water Pollution Research: River Tees, 500

500
Water Supplies, Bore-hole, 35
Water Supplies, National, 4
Weighings, Rapid, 146
Weiding in Chemical Plant Repairs;
C. W. Brett, 397; Modern Methods.

C. W. Brett, 397; and 355 355 West Cumberland Society of Chemists and Engineers, 380 White Pigments and Oil Pastes: New British Standard Specifications, 566

WILLS-

Allen, A. W., 525

Allen, A. W., 525
Baker, G. S., 429; Beddows, Wm.,
173; Beresford, Frederick William,
61; Bush, A. W., 525
Clark, J., 472; Cohen, Professor J. B.,
148; Courtauld, Miss Katharine
Mina, 61; Cundiff, Sir William, 148
Delpech, Reginald George Marius, 85;
Dudley, Dr. H. W., 497
Foster, A. L., 497; Fox, Charles
Edward, 316

Wills-continued

Goldschmidt, E. G., 450; Goodall, William Leslie, 219; Goulden, T., 548

548
Hadfield, Thomas, 173; Hollingshurst,
Henry James George, 148; Hooper,
E. G., 429; Hope, R. J., 497;
Hunter, J. W., 548
Kingzett, C. T., 361
Lunn, W. E. S., 548

McPherson, J., 472; Makinson, J. H., 525; Meyer, Sir F. C., 497; Milling-ton, Walter, 384; Morgan, R. S., 525

Dalmer, Sir A. M., 497; Peck, Dr-Ernest Lawrence, 199; Pochin, Horace Stanley, 136
 Richardson, Edmund Rick, 316; Riddell, Dr. James Robertson, 241; Robinson, E., 334

Adomson, E., 384
Sanderson, Arthur Hubert, 85; Slatter,
E. W., 361; Stiles, Matthew Henry,
85; Stromeyer, J. P. E. C., 525
Tangye, Sir Harold Lincoln, 61
Walker, Sir James, 19; Wreaks, John
Henry, 41

Works Equipment News, 62 World Power Conference, Third, 403

X-Ray Methods in Industry; Dr. R. C. Evans, 559

Zinc Industry, 513 Zirconium and its Compounds, The Development of; M. Schofield, 303

INDEX TO METALLURGICAL SECTION

A

Alloy Steel Gas Cylinders, 14 Aluminium Alloys, New Work on, 1 Aluminium, Solubility of Hydrogen in,

Analysis, Improved Methods of, 1 Analytical Methods, New, 32

B

Bi-Metals and Thermostatic Metals, 34 Brass Melting Losses, A Study of, 25 British Cast Iron Research Association,

British Non-Ferrous Metals Research Association (Five Year Plan), 2

C

Carbon Tool Steels, Properties of, 32
"Cast Iron" and "Steel," The Definition of, 7
Cast Iron Research, 26
Chromium Metal, The Smelting of, 17
Chromium Steels (Greaves), 24
Corrosino Centres on Steel, 2
Corrosion, The Prevention of, by Acids, 9

Dental Alloys and Amalgams, 14 Detergents for Tinned Ware, 16 Die Casting Alloys, 36

E

Electro-deposition in Industry, 8

F

Foundry Practice, A Manual of (Laing and Rolfe), 24 Foundry Practice, A British School for, 5 "Free-Cutting" Aluminium Alloys, 20

H

Hadfield, Sir Robert, New Honour for, 8 Heat-Conductivity of Aluminium Alloys, Heat Losses of Blast Furnaces, External,

I

Ingot Metals, Basic Type, 14 Institute of Metals, 21 Iron and Steel Institute, 18, 23

Lead, The Electrolytic Refining of, 10 Leather Pickling Practice, 30

M

Magnesium Production, World-Wide, 31
Metal Coatings, Hardness of Sprayed, 14
Metal Crystallisation under Vibration, 20
Metallurgy at the National Physical
Laboratory, 27
Metallurgy, Practical Training in, 26
Metal Melting, 19
Metal Surfaces, improving, by Electrical
Oxidation ("Eloxal" Process), 3
Moscow Steel Institute, 8

Non-Ferrous Metals Research, Recent Progress in, 21 Non-Metallic Inclusions in Ferro-Alloys, 13

0

Oxygen, Determination of, in Steel, 32

P

Patents, Some Recent Metallurgical, 6, 12, 18, 24, 35 Platings, Protective Value of, 2 Porosity of Tin Coatings on Steel, 4 Precious Metals for Chemical Plant, 20

R

Refractories for Electric Furnaces, Refractories for Metallurgical Work Rhenium, A New Australian Source of

Sodium Carbonate in the Foundry, 18 Sodium Metal in Bulk, 19 Steel Cartel Negotiations, The, 2 Steel, Subcutaneous Effects During the Scaling of, 23 Stress and Corrosion, 8

Tarnishing of Liquid Metals, 31 Tin Alloys, Graphical Studies of, 15 Tin and Tinned Ware, Black Spots on, 33 Tin Industry, Statistics of the 3, 14 Tinplate, A Substitute for, 20

TT

United States Copper Industry, 6

V

Vacuum Refining for Metals, 19

X

X-Ray Diffraction Patterns to Metal-lurgy, Application of, 11

